

# FRACTION WORKSHEET 1

- Q1. Write the two meanings of  $\frac{3}{5}$
- Q2. Write the two meanings of 0.37
- Q3. Write the two meanings of 12.6
- Q4. Write the meaning of 23%
- Q5. Copy and complete the following table.

Common fraction	Decimal fraction	Percent
		27%
	0.56	
$\frac{3}{5}$		
		4.2%
	0.295	
$\frac{4}{7}$		
		120%
	3.4	
$\frac{8}{5}$		
		11.98%
	0.0045	
$2\frac{3}{4}$		

- Q6. Write four equivalent fractions for each of the following, two using larger numbers, two using smaller numbers.  
(a)  $\frac{8}{12}$       (b)  $\frac{4}{20}$       (c)  $\frac{16}{80}$       (d)  $\frac{20}{12}$       (e)  $\frac{32}{32}$       (f)  $\frac{96}{36}$
- Q7. Write the following in simplest form (i.e. as equivalent fractions with the smallest possible numbers).  
(a)  $\frac{5}{10}$       (b)  $\frac{14}{21}$       (c)  $\frac{64}{24}$       (d)  $\frac{14}{35}$       (e)  $\frac{32}{15}$       (f)  $\frac{120}{200}$
- Q8. Explain why multiplying or dividing the top and bottom of a fraction by the same number makes an equivalent fraction.
- Q9. Convert the following mixed numbers to improper fractions.  
(a)  $2\frac{1}{2}$       (b)  $1\frac{3}{8}$       (c)  $3\frac{3}{4}$       (d)  $7\frac{1}{3}$       (e)  $20\frac{4}{5}$       (f)  $63\frac{1}{2}$
- Q10. Convert the following improper fractions to mixed numbers.  
(a)  $\frac{6}{5}$       (b)  $\frac{13}{4}$       (c)  $\frac{20}{3}$       (d)  $\frac{19}{7}$       (e)  $\frac{53}{5}$       (f)  $\frac{187}{6}$

Q11. Copy and complete the following table.

	<b>20</b>	<b>400</b>	<b>\$6.00</b>	<b>\$360</b>
<b><math>\frac{1}{4}</math> of</b>				
<b><math>\frac{3}{5}</math> of</b>				
<b>0.2 of</b>				
<b>2.5 of</b>				
<b>1% of</b>				
<b>4% of</b>				
<b>10% of</b>				
<b>110% of</b>				

- Q12. (a) Add 10% to \$40  
 (b) Subtract 10% from \$40  
 (c) Find the cost of a \$60 jacket after it is reduced 30%  
 (d) A restaurant adds an 8% surcharge to a \$70 bill. How much will it come to?  
 (e) Albert bought a rare coin for \$120 and it increased in value by 150%. How much was it worth then?  
 (f) Marcia bought a \$2400 necklace, but got a 6% discount for paying cash. How much did she pay?

- Q13. (a) Fred sold  $\frac{4}{5}$  of his dogs. What percentage did he sell?  
 (b) Betty got  $\frac{17}{20}$  on her test. What is that as a percent?  
 (c) What is a score of 19 out of 25 as a percent?  
 (d) What is a score of 9 as a percentage of a total of 12?  
 (e) What is 42 and a percentage of 50?  
 (f) What is 27 as a percentage of 32?

- Q14. (a) Cindy's wage rose from \$500 per week to \$530. Was that more or less than a 6% increase?  
 (b) Jonno's wage increased from \$480 to \$575. What percent increase was that?  
 (c) Maggot's wage fell from \$400 to \$270. What was the percent fall?  
 (d) Misha bought an antique lamp for \$600 and sold it for (\$1100). What percent profit did she make?  
 (e) Crumballs bought a lamp post for \$320 and sold it for \$220. What percent loss did he make?

- Q15. Hairy gets 6% commission on the cars he sells.  
 (a) How much would he earn for selling a \$23 000 car?  
 (b) How much would he earn in a week where he sold two cars worth \$15 500 each and one worth \$42 700?  
 (c) What value of cars would he have to sell to earn \$1200?

# FRACTION WORKSHEET 2

Q11. Write the two meanings of  $\frac{7}{10}$

Q12. Write the two meanings of 0.041

Q13. Write the two meanings of 2.9

Q14. Write the meaning of 6%

Q15. Copy and complete the following table.

Common fraction	Decimal fraction	Percent
		17%
	0.22	
$\frac{4}{5}$		
		11.3%
	0.175	
$\frac{3}{7}$		
		150%
	3.22	
$\frac{11}{5}$		
		11.98%
	0.0016	
$5\frac{2}{5}$		

Q16. Write two equivalent fractions for each of the following, one using larger numbers, one using smaller numbers.

(a)  $\frac{9}{12}$       (b)  $\frac{4}{24}$       (c)  $\frac{16}{40}$       (d)  $\frac{20}{16}$       (e)  $\frac{31}{31}$       (f)  $\frac{36}{10}$

Q17. Write the following in simplest form (i.e. as equivalent fractions with the smallest possible numbers).

(a)  $\frac{6}{15}$       (b)  $\frac{14}{28}$       (c)  $\frac{60}{24}$       (d)  $\frac{11}{119}$       (e)  $\frac{32}{16}$       (f)  $\frac{100}{150}$

Q18. Convert the following mixed numbers to improper fractions.

(a)  $2\frac{1}{3}$       (b)  $3\frac{3}{8}$       (c)  $1\frac{3}{4}$       (d)  $7\frac{1}{4}$       (e)  $20\frac{2}{5}$       (f)  $61\frac{1}{2}$

Q19. Convert the following improper fractions to mixed numbers.

(a)  $\frac{8}{5}$       (b)  $\frac{13}{6}$       (c)  $\frac{20}{7}$       (d)  $\frac{19}{2}$       (e)  $\frac{53}{10}$       (f)  $\frac{187}{100}$

Q11. Copy and complete the following table.

	<b>8</b>	<b>60</b>	<b>\$50.00</b>	<b>\$300</b>
<b><math>\frac{1}{4}</math> of</b>				
<b><math>\frac{3}{5}</math> of</b>				
<b>0.2 of</b>				
<b>2.5 of</b>				
<b>1% of</b>				
<b>4% of</b>				
<b>10% of</b>				
<b>120% of</b>				

- Q12. (a) Add 4% to \$40  
 (b) Subtract 20% from \$40  
 (c) Find the cost of a \$60 jacket after it is reduced 40%  
 (d) A restaurant adds a 12% surcharge to a \$60 bill. How much will it come to?  
 (e) Albert bought a rare coin for \$140 and it increased in value by 150%. How much was it worth then?  
 (f) Marcia bought a \$2000 necklace, but got a 6% discount for paying cash. How much did she pay?

- Q13. (a) Fred sold  $\frac{3}{5}$  of his dogs. What percentage did he sell?  
 (b) Betty got  $\frac{13}{20}$  on her test. What is that as a percent?  
 (c) What is a score of 19 out of 30 as a percent?  
 (d) What is a score of 9 as a percentage of a total of 10?  
 (e) What is 44 as a percentage of 50?  
 (f) What is 3 as a percentage of 60?

- Q14. (a) Cindy's wage rose from \$600 per week to \$640. Was that more or less than a 10% increase?  
 (b) Jonno's wage increased from \$500 to \$575. What percent increase was that?  
 (c) Maggot's wage fell from \$460 to \$295. What was the percent fall?  
 (d) Misha bought an antique lamp for \$400 and sold it for \$1100. What percent profit did she make?  
 (e) Crumballs bought a lamp post for \$120 and sold it for \$105. What percent loss did he make?

- Q15. Hairy gets 8% commission on the cars he sells.  
 (d) How much would he earn for selling an \$18 000 car?  
 (e) How much would he earn in a week where he sold two cars worth \$15 500 each and one worth \$32 700?  
 (f) What value of cars would he have to sell to earn \$1000?